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2634

Atty. Docket No. RMBS.P101

PATENT

IN THE UNITED STATES PATENT OFFICE

In Re Patent Application of:
Chang, et al.

Examiner: Not Yet Assigned

Art Unit: Not Yet Assigned

Application No. 09/941,079

Filed: August 28, 2001

For: CLOCK DATA RECOVERY WITH SELECTABLE PHASE CONTROL INPUT

First Class Certificate of Mailing (37 C.F.R. § 1.8(a))
I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail with sufficient postage in an envelope addressed to the Assistant Commissioner for Patents, Washington, D.C. 20231 on

September 11, 2002

Barbara B. Courtney
(Name of Person Mailing Correspondence)

Signature 9-11-02 Date

Assistant Commissioner for Patents
Washington, D.C. 20231

TRANSMITTAL OF FORMAL DRAWINGS

Sir:

Enclosed herewith for filing in the above-identified patent application are eleven (11) sheets of formal drawings.

The Commissioner is hereby authorized to charge any deficiencies in fees or credit any overpayment to our Deposit Account No. 501914. A duplicate of this transmittal letter is enclosed.

Respectfully Submitted,

Barbara B. Courtney
Registration No. 42,442

Shemwell Gregory & Courtney LLP

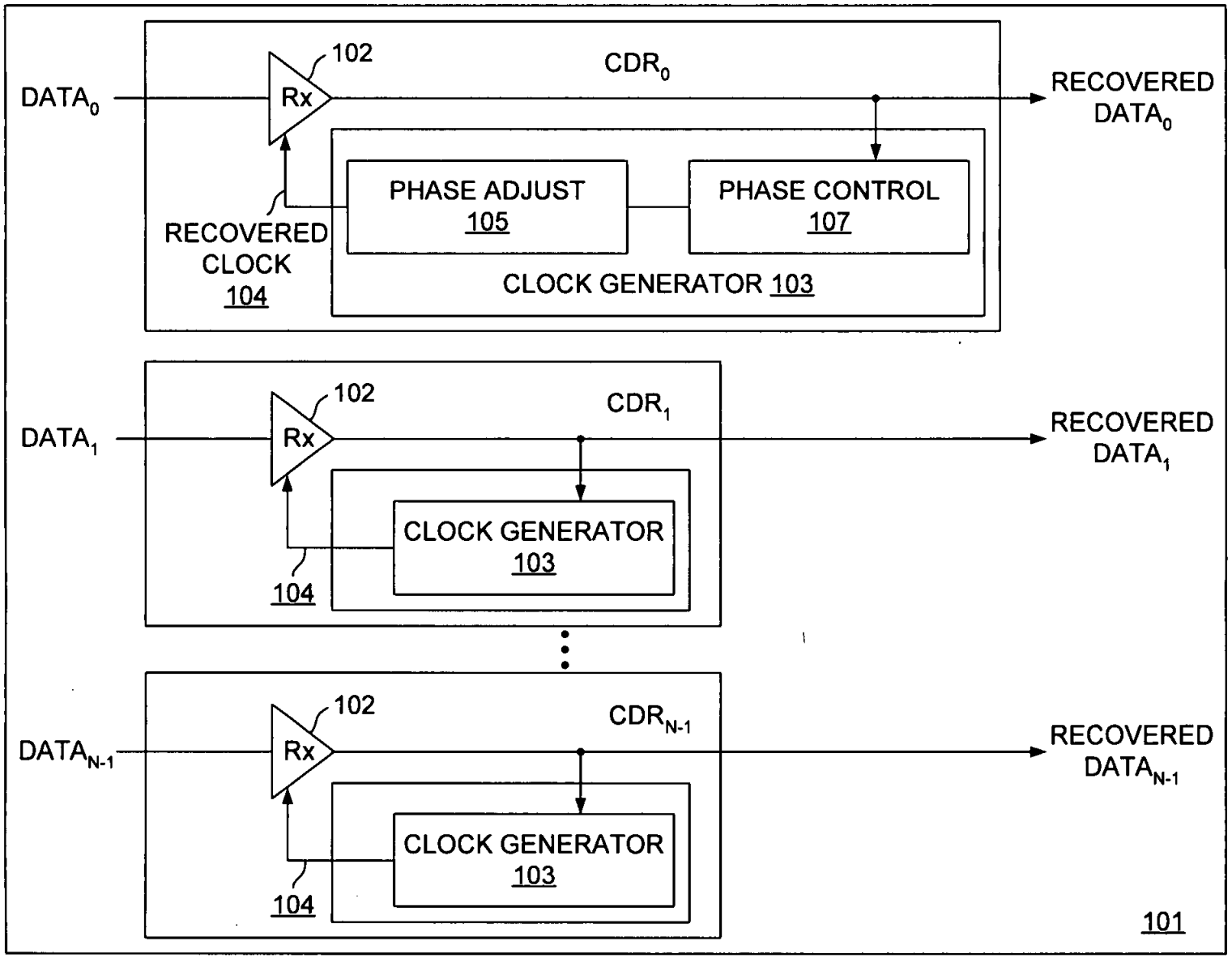


FIG. 1
(Prior Art)

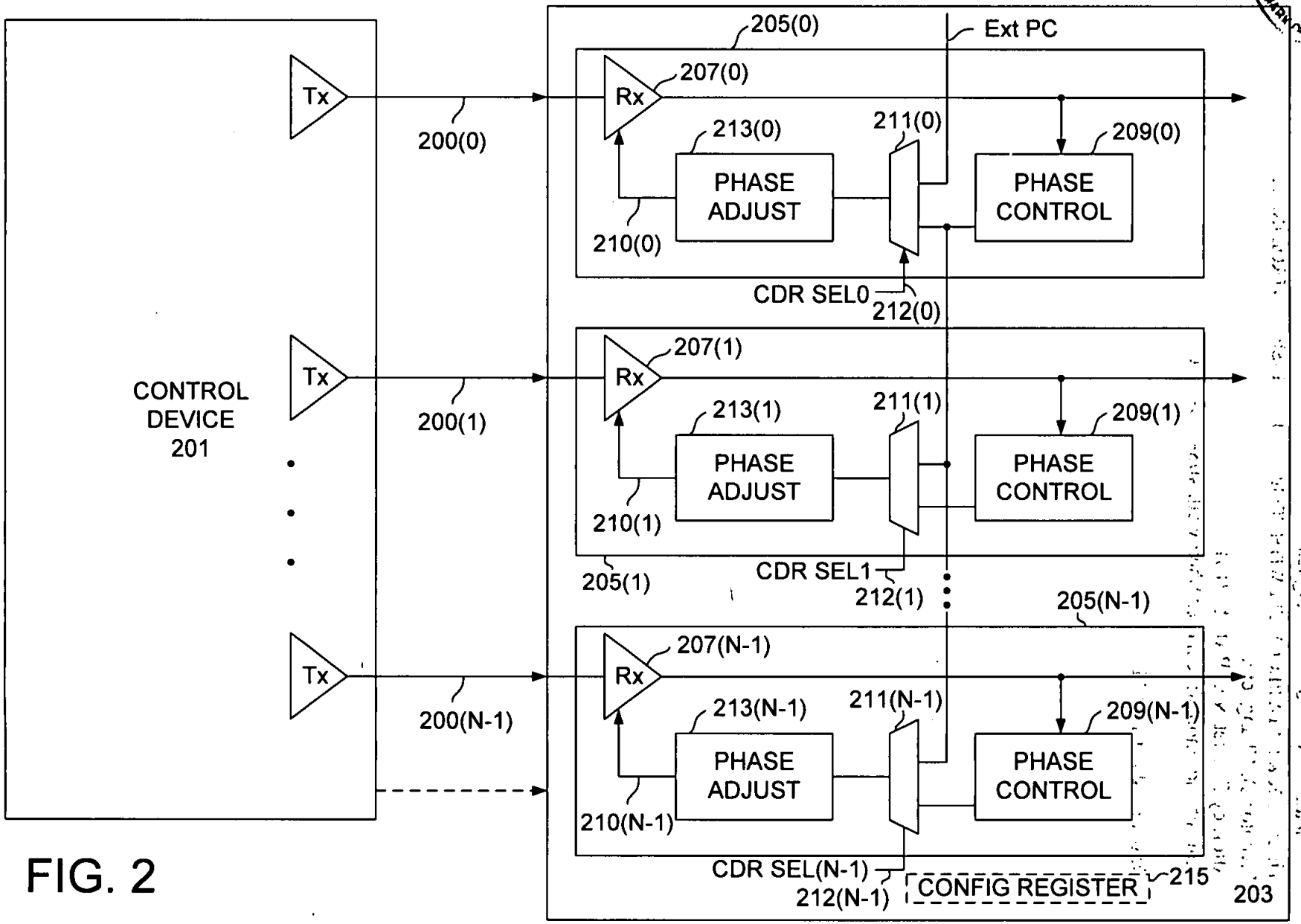


FIG. 2

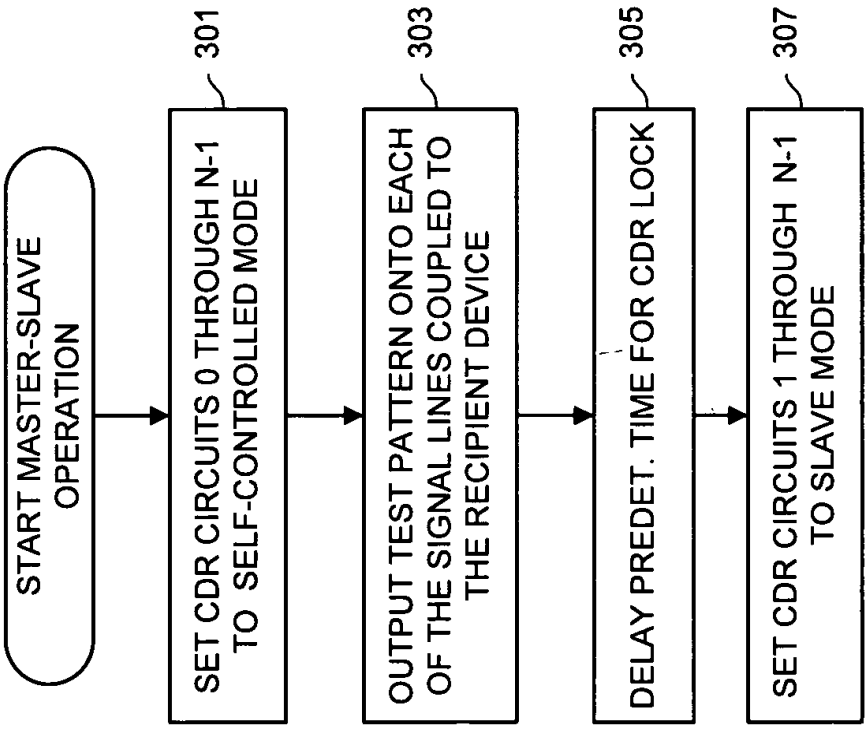


FIG. 3

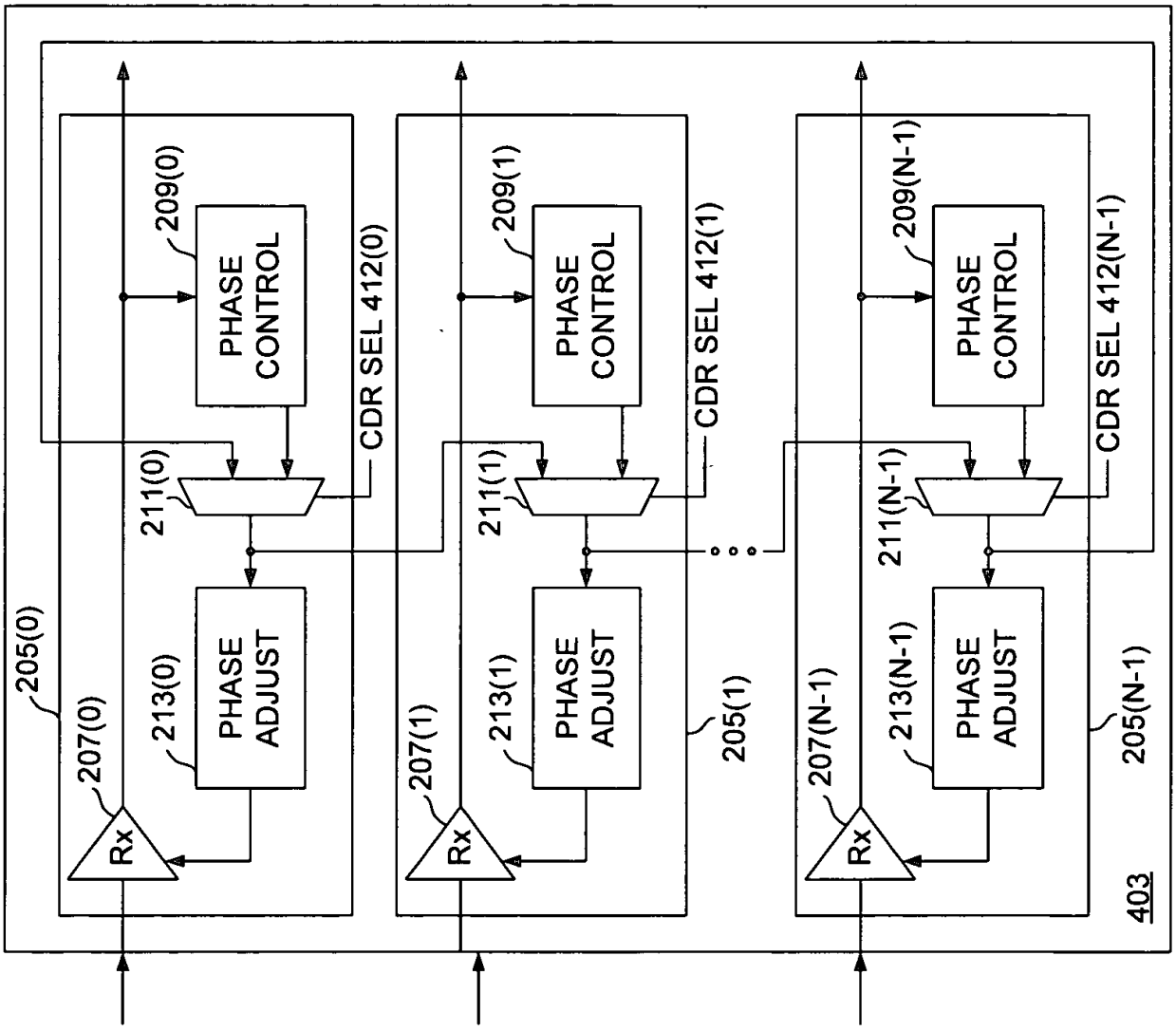
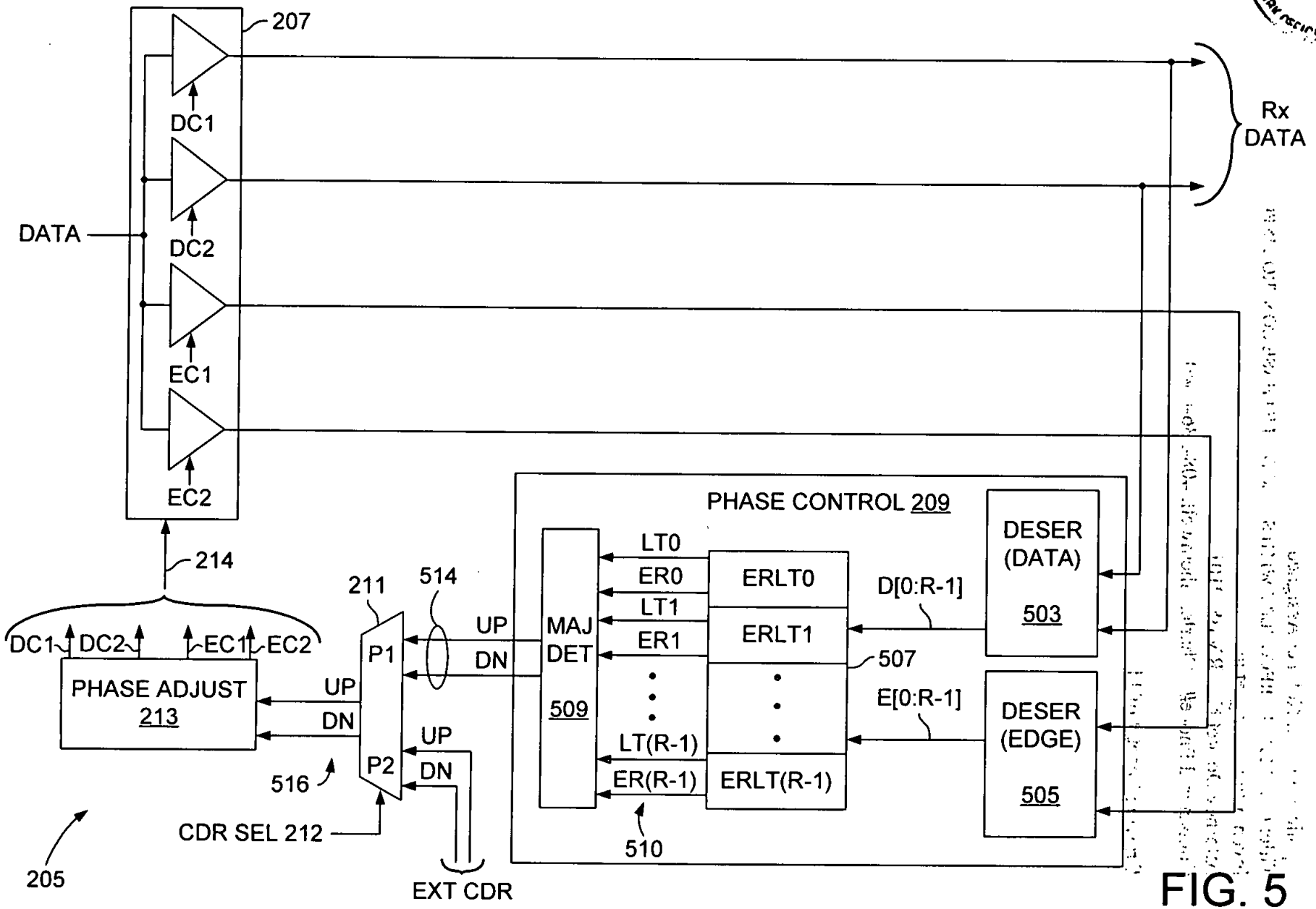


FIG. 4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DC1
DC2
EC1
EC2
DATA
Rx
DATA
214
211
514
DC1
DC2
EC1
EC2
PHASE ADJUST
213
UP
DN
P1
P2
UP
DN
516
CDR SEL 212
205
EXT CDR
PHASE CONTROL 209
MAJ
DET
509
UP
DN
LT0
ER0
LT1
ER1
LT(R-1)
ER(R-1)
ERLT0
ERLT1
ERLT(R-1)
507
510
D[0:R-1]
E[0:R-1]
DESER
(DATA)
503
DESER
(EDGE)
505

FIG. 5

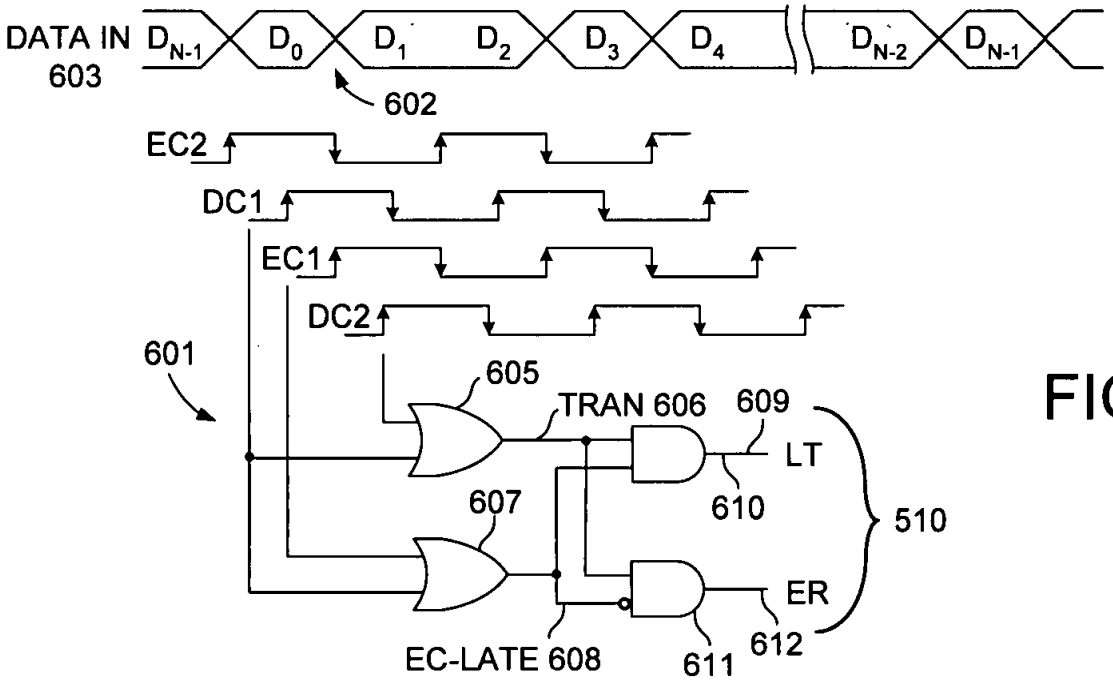


FIG. 6

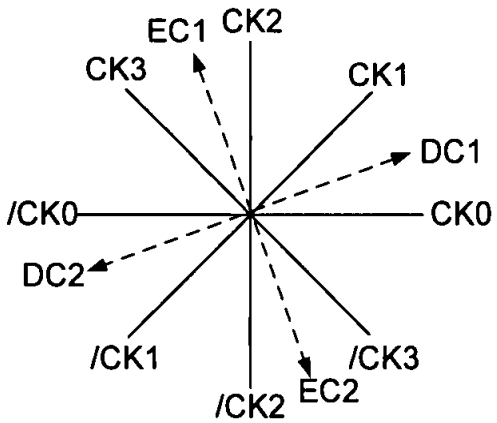


FIG. 8

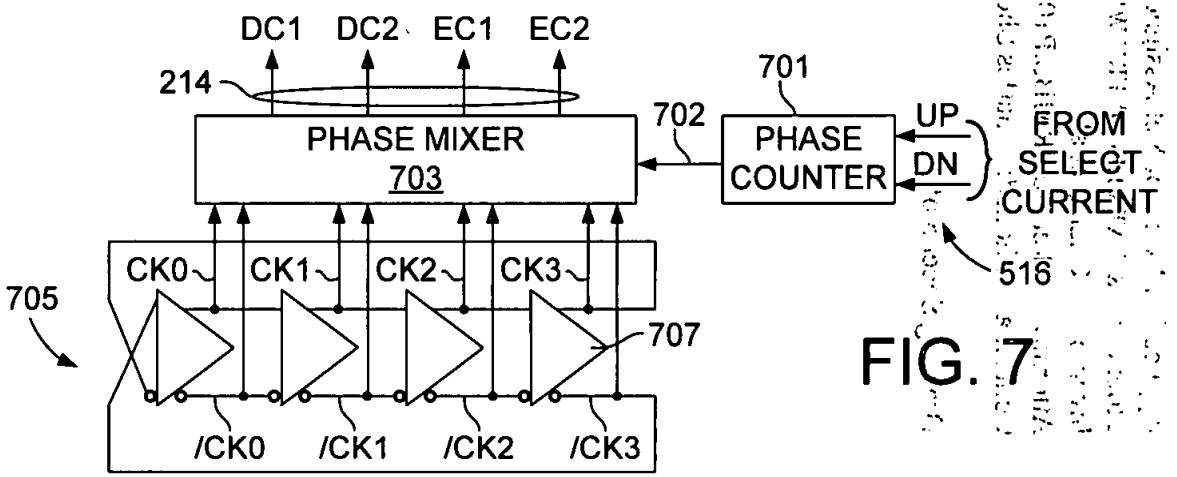


FIG. 7

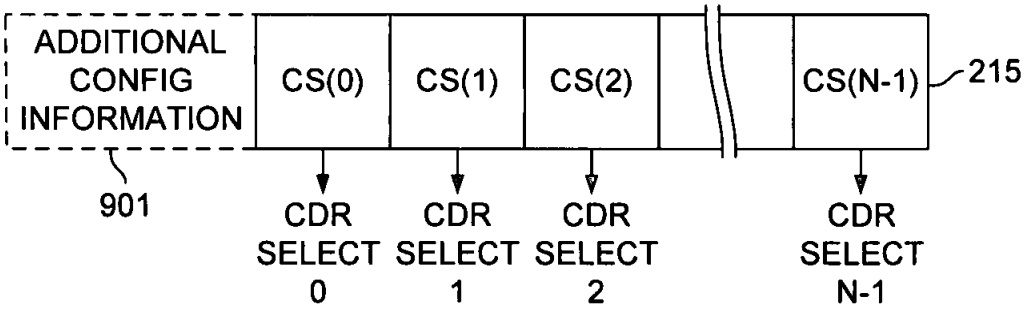


FIG. 9

FIG. 10

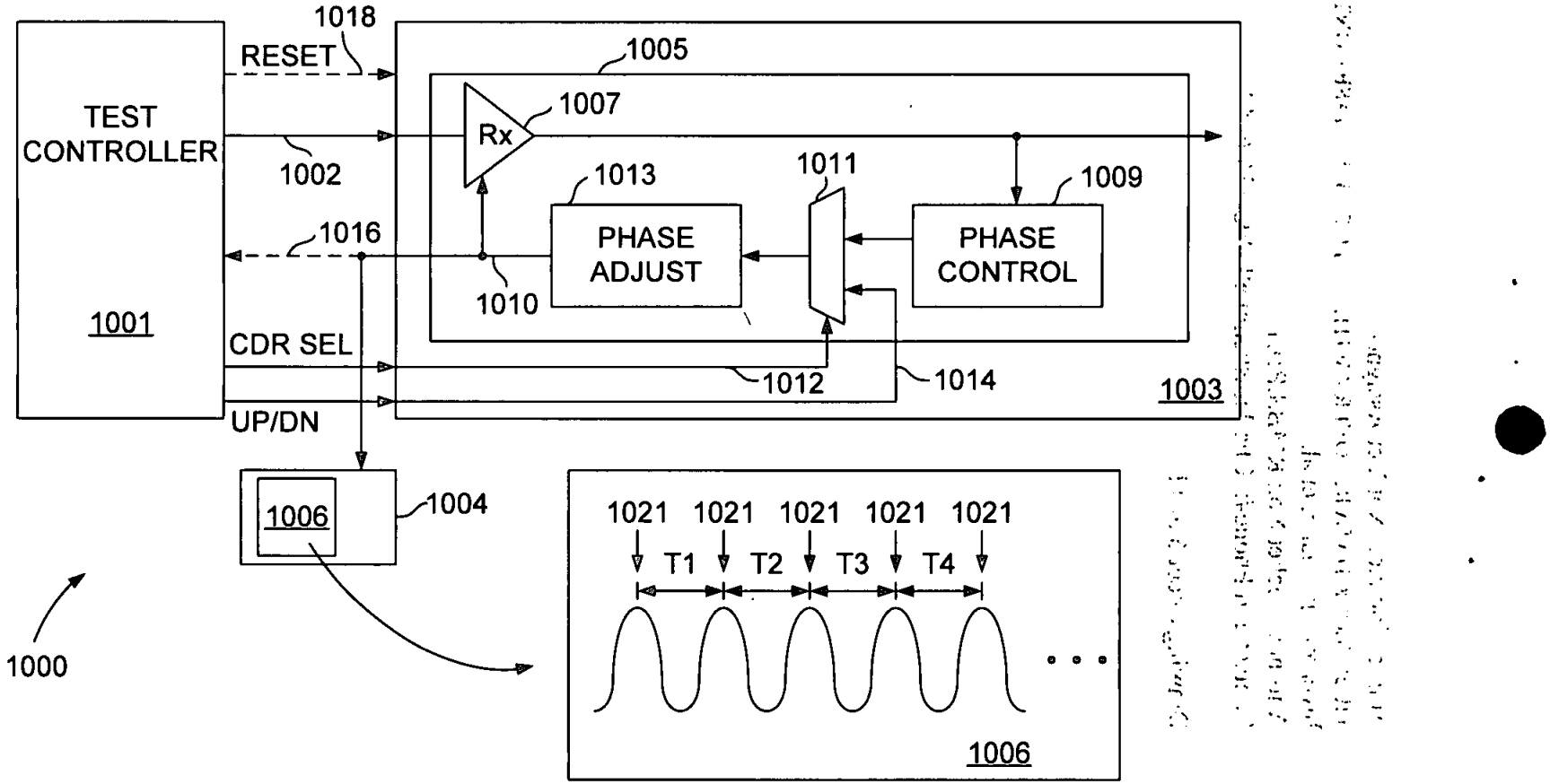
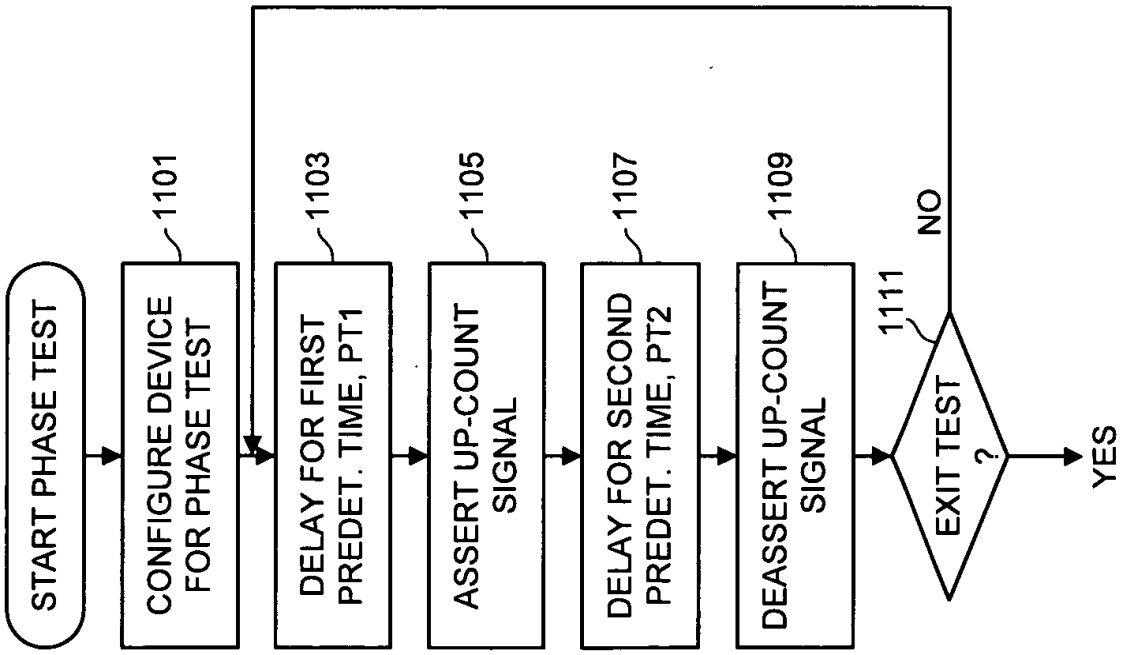


FIG. 11



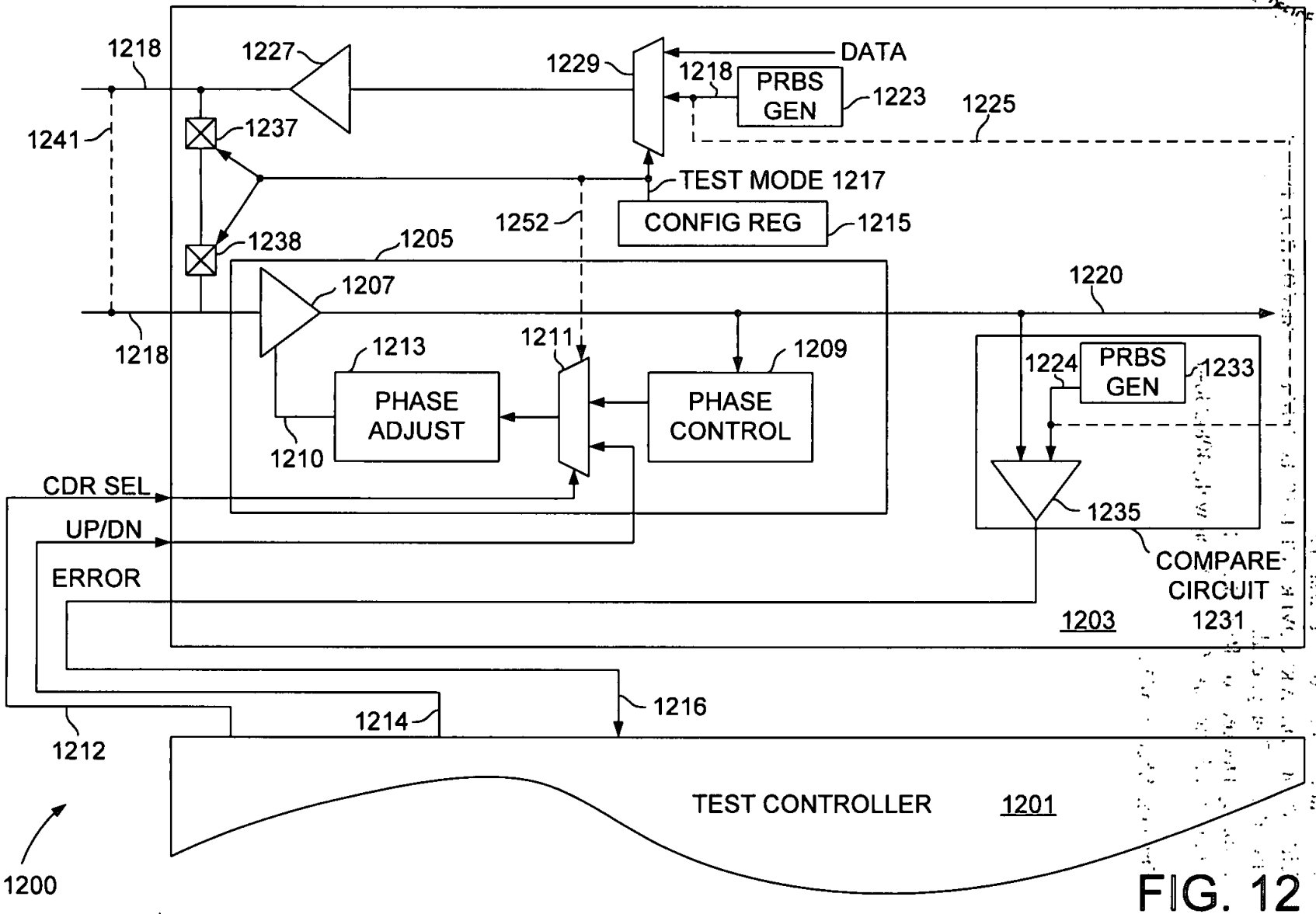

1218
1227
1229
DATA
1218
PRBS GEN
1223
1225
1241
1237
TEST MODE 1217
1252
CONFIG REG
1215
1238
1205
1207
1220
1218
1213
1211
1209
1224
PRBS GEN
1233
PHASE ADJUST
PHASE CONTROL
1210
CDR SEL
UP/DN
ERROR
1235
COMPARE CIRCUIT 1231
1203
1216
1214
1212
TEST CONTROLLER 1201
1200

FIG. 12

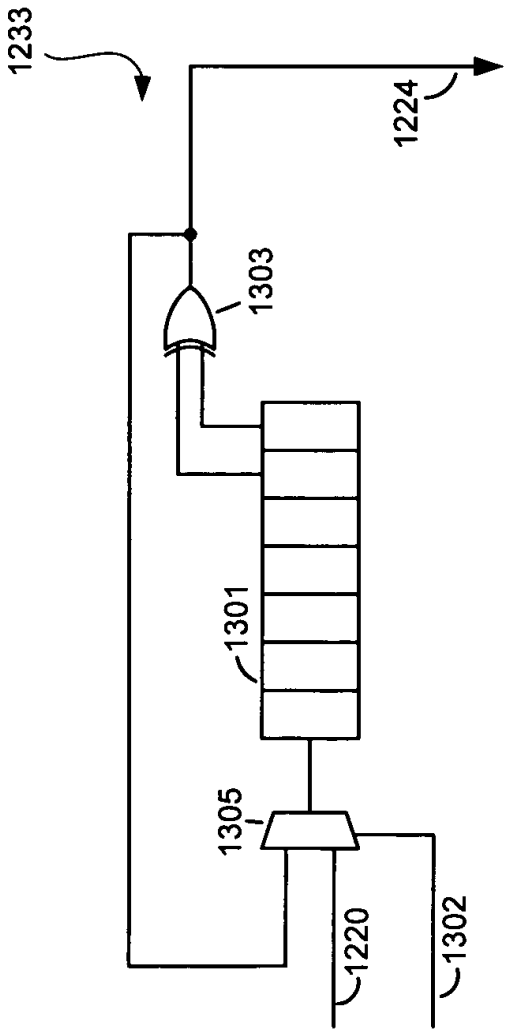


FIG. 13

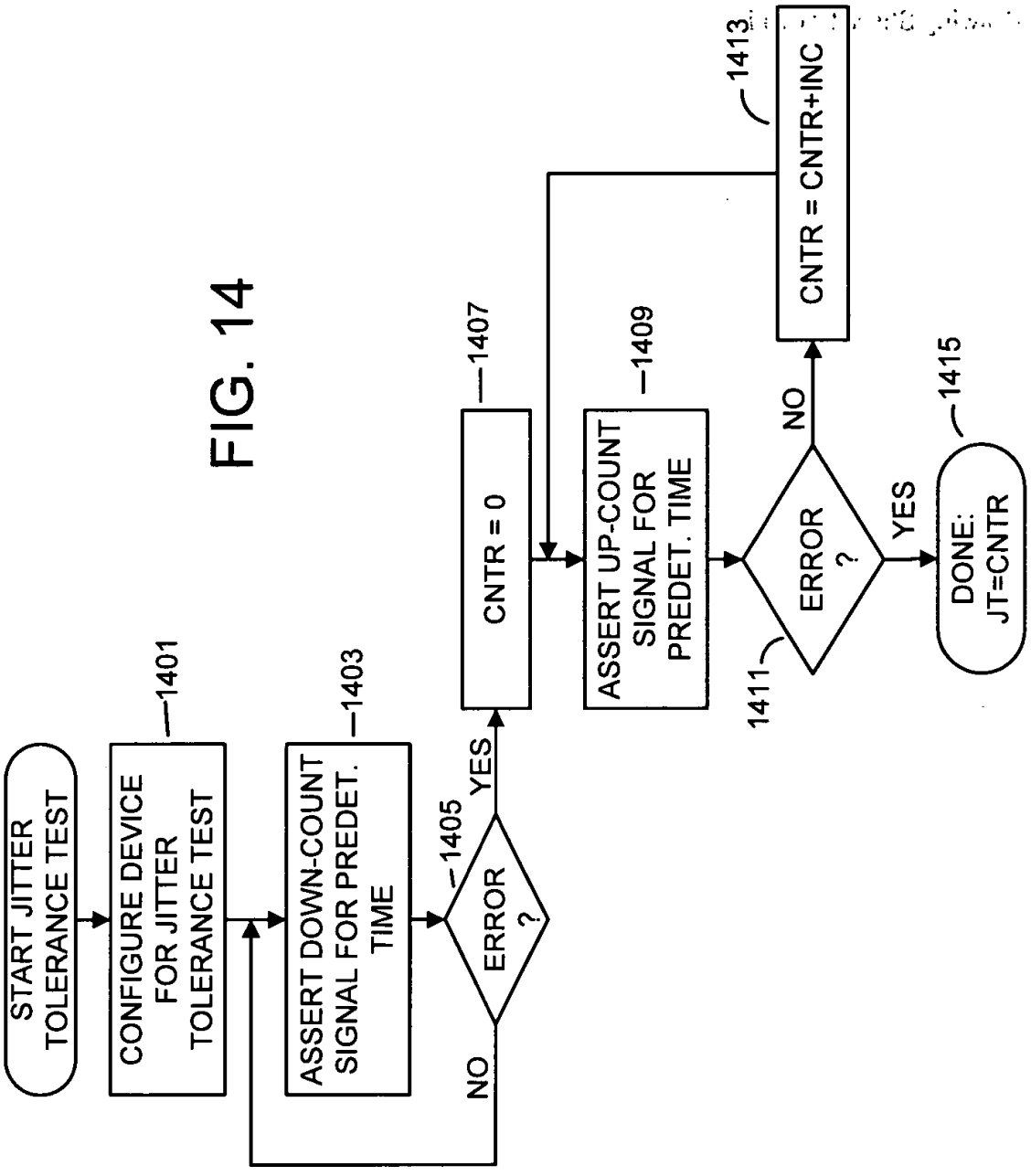


FIG. 14